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From: Dave Dickerson/R1/USEPA/US

To: "Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com>

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Delivered Date: 05/07/2010 11:35 AM EDT

Subject: RE: LHCC Cap Carbon layer - Reactive Core Mats

Anita - since the losses from the CAD are mainly during placement and NOT after capping I don't think using activated carbon in the cap will be needed. My apologies for not making this clearer sooner. But we should add a cost, even if just a placeholder, for AC addition between placement seasons, or between placement and capping years.

Tom - can you pass this question past the ERDC folks? i.e., any thoughts on the means and methods for AC addition into the CAD cell btw. placement and capping seasons? any idea of cost?

thanks - Dave

▼ "Rigassio-Smith, Anita" ---05/06/2010 05:01:16 PM---Dave, Installation of the reactive core mats added ~\$2.2M to the capping cost.

From: "Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com>

To: Dave Dickerson/R1/USEPA/US@EPA

Cc: "Fox, Steve (New Bedford)" <Steve.Fox@jacobs.com>, "Maryellen.lorio@usace.army.mil" <Maryellen.lorio@usace.army.mil>, "Mark.J.Anderson.Jr@usace.army.mil" <Mark.J.Anderson.Jr@usace.army.mil>, "thomas.j.fredette@usace.army.mil" <thomas.j.fredette@usace.army.mil>

Date: 05/06/2010 05:01 PM

Subject: RE: LHCC Cap Carbon layer - Reactive Core Mats

Dave,

Installation of the reactive core mats added ~\$2.2M to the capping cost.

I haven't completed the revised estimates yet, but it is likely that the only funding scenario where filling the LHCC will take more than one year (and capping the third year) is the \$15M/year. Using the phase 3 dredging rates we discussed, the mechanical dredging cost is ~\$15M.

I will need more information on what ERDC is envisioning before I can cost carbon in-between layers. Let me know how you want to proceed.

Anita

-----Original Message-----

From: dickerson.dave@epamail.epa.gov [mailto:dickerson.dave@epamail.epa.gov]
Sent: Thursday, May 06, 2010 4:09 PM
To: Rigassio-Smith, Anita
Cc: Fox, Steve (New Bedford); Maryellen.Iorio@usace.army.mil;
Mark.J.Anderson.Jr@usace.army.mil; thomas.j.fredette@usace.army.mil
Subject: Re: LHCC Cap Carbon layer - Reactive Core Mats

Anita - thanks, this is helpful. But rereading the draft ERDC model the suggestion was to use AC in the CAD cell between placement seasons to minimize season to season losses PRIOR to capping.

How much was the cost you developed for the cap with reactive core mat?

Maybe we should have a conference call with the ERDC folks to resolve this.

Dave

From: "Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com>
To: Dave Dickerson/R1/USEPA/US@EPA
Cc: "Fox, Steve (New Bedford)" <Steve.Fox@jacobs.com>
Date: 05/06/2010 03:40 PM
Subject: LHCC Cap Carbon layer - Reactive Core Mats

Hi Dave,

In response to your request for adding a cost to include activated carbon with the LHCC cap, I did some research and have come up with a technology that I have discussed with folks here and feel is a feasible and effective solution for our application. I have also developed a cost with input from the vendor. So that you can get an idea of the technology, I have attached an article that I found useful in explaining the construction and installation of the reactive carbon mats. Evidently, SES has already used this technology on the Island End River Sediment Cap project in Boston. Also, the vendor tells me that there will be another installation of this technology in Lowell, MA later this

summer, and has invited us to observe the process.

Let me know if you think this will satisfy the request to include activated carbon in the cap to minimize the potential for PCB flux through the cap to the water column, or any other thoughts you may have.

Anita

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